Claims

[c1] A method of manufacturing a trim panel assembly using a first tool having a mold cavity and a movable mold element to manufacture a first trim component and using a second tool to manufacture a second trim component comprising:

positioning the mold element such that the mold element at least substantially obstructs the mold cavity and inserting a first material in the cavity to form the first trim component having a receptacle resulting from the obstruction of the cavity by the element; removing the first trim component from the first tool; manufacturing a second trim component having a second material using a second tool that is different from the first tool; and securing the second trim component within the receptacle.

- [c2] The method of Claim 1, wherein the second material comprises cloth.
- [c3] The method of Claim 1, wherein the second material comprises vinyl.

- [c4] The method of Claim 1, wherein the first material is substantially rigid.
- [05] The method of Claim 1, wherein the receptacle is a recess.
- [c6] The method of Claim 1, wherein the receptacle is an aperture.
- [c7] The method of Claim 1, wherein the mold element has a first surface and a second surface extending from the first surface, the second surface obstructing the cavity to form a channel in the first material.
- [08] The method of Claim 1, further comprising positioning an insert within the cavity to incorporate the insert within the trim component.
- [c9] An automotive vehicle tooling system for manufacturing a trim panel assembly comprising:
 - a first tool operable to produce a first component of a first material, said first tool having a first cavity and a second cavity, said first tool further having a mold element movable between a first position to expose said second cavity and a second position to block said second cavity, said first tool receiving said first material and producing said panel having a receptacle when said mold element is positioned in said sec-

ond position; and a second tool different than said first tool operable to produce a second component having a second material different than said first material; wherein said second component is secured within said receptacle of said first component.

- [c10] The system of Claim 9, further comprising:

 positioning said mold element of said first tool in
 said first position;
 introducing a third material into said first cavity and
 said second cavity to form a third trim component;
 and
 removing said third trim component from said first
 tool.
- [c11] The system of Claim 9, wherein said receptacle is a recess.
- [c12] The system of Claim 9, wherein said receptacle is an aperture.
- [c13] The system of Claim 9, wherein said second component comprises cloth.
- [c14] The system of Claim 9, wherein said second component comprises vinyl.

[c15] The system of Claim 9, wherein said first component comprises an insert.

assembly;

[c16] An automotive trim panel assembly and a tooling system for producing the automotive trim panel comprising:

a first tool having a mold cavity and a mold element movable between a first position in which at least a majority of the mold element is positioned outside the cavity and a second position in which the element at least substantially obstructs the cavity; a second tool assembly different from the first tool

manufacturing a first component of the trim panel assembly by inserting a first material within the first tool with the mold element in the second position to form a receptacle within said first component; manufacturing a second component of the trim panel assembly using the second tool assembly and a second material; and

securing the second component within the receptacle of the first component.

- [c17] The trim panel assembly and tooling system of Claim 16, wherein said second material comprises cloth.
- [c18] The assembly of Claim 16, wherein said second material comprises vinyl.

- [c19] The assembly of Claim 16, wherein said receptacle is an aperture.
- [c20] The assembly of Claim 16, wherein said receptacle is a recess.